

SECRETSAPC *R3531*

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To: All Field Personnel

10 January 1958

From: [REDACTED]Subject: SYSTEM 1 SERVICE BULLETIN - VOICE FILTER

The airframe manufacturer has supplied a set of voice filters, one for each aircraft to be used with System 1. The airframe manufacturer has issued a service bulletin covering the installation and wiring modifications. This work will be completed by representatives of the airframe company. The title of their bulletin is "Modification No. 156."

This bulletin is to describe the purpose of the filter and how it is used with System 1. Modification No. 156 routes the pilot's voice from the output of the interphone amplifier to the timing track of the System 1 recorder. A switch installed in the cockpit allows the pilot to record voice announcements on the System 1 recorder without broadcasting these announcements over the ARC-34. This is a two-way toggle switch. One position disables the ARC-34. In either position the pilot's voice is recorded by the System 1 recorder.

To prevent voice frequencies from interfering with the recorder timing signals, a filter was designed to attenuate frequencies above 950 cycles. This filter is inserted between the output of the interphone amplifier and the input to the System 1 recorder. If a flat frequency response is maintained for all frequencies up to the filter's cutoff frequency, the voice recordings are practically unintelligible. This is corrected by moderate attenuation of frequencies below 300 cycles.

The wiring diagram may be found in the service bulletin, "Modification No. 156." This bulletin was shipped with the filters. The filter schematics, the filter assembly drawings, and a typical filter response curve are attached.

PWA:hcp

(Enclosures not attached hereto.)

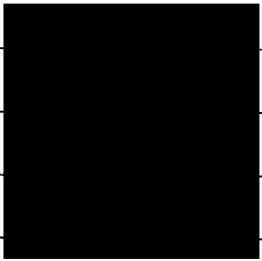

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Remarks:					
<p>Caution should be taken to insure no loss of the 1000 cycle tone. The reduction of low frequencies is a practical way to increase intelligibility. JBS</p> <p>Discussed with Toulla - Syst. Setup changes like STM - being held up. DJK 2/11/58</p>					
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